

PCT09

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/869,185

DATE: 10/29/2001  
TIME: 11:33:59

Input Set : A:\ES.txt  
Output Set: N:\CRF3\10292001\I869185.raw

3 <110> APPLICANT: Ashikari, Toshihiko  
4 Ochiai, Misa  
6 <120> TITLE OF INVENTION: Method of Breeding Yeast  
8 <130> FILE REFERENCE: 46221  
10 <140> CURRENT APPLICATION NUMBER: US 09/869,185  
12 <141> CURRENT FILING DATE: 2001-6-25 *Edit date format 2001-06-25*  
14 <150> PRIOR APPLICATION NUMBER: PCT/JP00/07491  
16 <151> PRIOR FILING DATE: 2000-10-26  
18 <160> NUMBER OF SEQ ID NOS: 28  
20 <210> SEQ ID NO: 1  
22 <211> LENGTH: 34  
24 <212> TYPE: DNA  
26 <213> ORGANISM: Artificial Sequence  
28 <220> FEATURE:  
30 <223> OTHER INFORMATION: The FRT sequence used in the present invention contains SEQ ID NO:1  
32 <400> SEQUENCE: 1  
33 gaagttccta tactttctag agaataggaa cttc 34  
36 <210> SEQ ID NO: 2  
38 <211> LENGTH: 31  
40 <212> TYPE: DNA  
42 <213> ORGANISM: Artificial Sequence  
44 <220> FEATURE:  
46 <223> OTHER INFORMATION: FRT2 which is one of a pair of FRT sequences (FRT2/FRT102) used in a DNA  
47 construct of the present invention  
49 <400> SEQUENCE: 2  
50 gaagttccta tactttctag agaataggaa c 31  
53 <210> SEQ ID NO: 3  
55 <211> LENGTH: 31  
57 <212> TYPE: DNA  
59 <213> ORGANISM: Artificial Sequence  
61 <220> FEATURE:  
63 <223> OTHER INFORMATION: FRT102 which is one of a pair of FRT sequences (FRT2/FRT102) used in a DNA  
64 construct of the present invention  
66 <400> SEQUENCE: 3  
67 gttcctatac tttctagaga ataggaactt c 31  
70 <210> SEQ ID NO: 4  
72 <211> LENGTH: 28  
74 <212> TYPE: DNA  
76 <213> ORGANISM: Artificial Sequence  
78 <220> FEATURE:  
80 <223> OTHER INFORMATION: FRT2W sequence reconstructed by recombination from a pair of FRT sequences  
81 (FRT2/FRT102)  
83 <400> SEQUENCE: 4  
84 gttcctatac tttctagaga ataggaac 28

87 <210> SEQ ID NO: 5  
89 <211> LENGTH: 29  
91 <212> TYPE: DNA

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93 <213> ORGANISM: Artificial Sequence  
95 <220> FEATURE:  
97 <223> OTHER INFORMATION: FRT3 which is one of a pair of FRT sequences (FRT3/FRT103)  
used in a DNA  
98 construct of the present invention  
100 <400> SEQUENCE: 5  
101 gaagttcccta tactttctag agaata  
104 <210> SEQ ID NO: 6  
106 <211> LENGTH: 30  
108 <212> TYPE: DNA  
110 <213> ORGANISM: Artificial Sequence  
112 <220> FEATURE:  
114 <223> OTHER INFORMATION: FRT103 which is one of a pair of FRT sequences (FRT3/FRT103)  
used in a DNA  
115 construct of the present invention  
117 <400> SEQUENCE: 6  
118 ttccataact ttcttagagaa taggaacttc  
121 <210> SEQ ID NO: 7  
123 <211> LENGTH: 25  
125 <212> TYPE: DNA  
127 <213> ORGANISM: Artificial Sequence  
129 <220> FEATURE:  
131 <223> OTHER INFORMATION: FRT3W sequence reconstructed by recombination from a pair of  
FRT sequences  
132 (FRT3/FRT103)  
134 <400> SEQUENCE: 7  
135 ttccataact ttcttagagaa tagga  
138 <210> SEQ ID NO: 8  
140 <211> LENGTH: 27  
142 <212> TYPE: DNA  
144 <213> ORGANISM: Artificial Sequence  
146 <220> FEATURE:  
148 <223> OTHER INFORMATION: FRT4 which is one of a pair of FRT sequences (FRT4/FRT104)  
used in a DNA  
149 construct of the present invention  
151 <400> SEQUENCE: 8  
152 gaagttcccta tactttctag agaata  
155 <210> SEQ ID NO: 9  
157 <211> LENGTH: 27  
159 <212> TYPE: DNA  
161 <213> ORGANISM: Artificial Sequence  
163 <220> FEATURE:  
165 <223> OTHER INFORMATION: FRT104 which is one of a pair of FRT sequences (FRT4/FRT104)  
used in a DNA  
166 construct of the present invention  
168 <400> SEQUENCE: 9  
169 ctataactttc tagagaatag gaacttc  
172 <210> SEQ ID NO: 10  
174 <211> LENGTH: 20  
176 <212> TYPE: DNA  
178 <213> ORGANISM: Artificial Sequence  
180 <220> FEATURE:  
182 <223> OTHER INFORMATION: FRT4W sequence reconstructed by recombination from a pair of

FRT sequences  
183 (FRT4/FRT104)

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185 <400> SEQUENCE: 10  
186 ctatactttc tagagaatag  
189 <210> SEQ ID NO: 11  
191 <211> LENGTH: 40  
193 <212> TYPE: DNA  
195 <213> ORGANISM: Artificial Sequence  
197 <220> FEATURE:  
199 <223> OTHER INFORMATION: Oligonucleotide synthesized to insert the FRT1-a sequence  
(including wild-  
200 type FRT sequence) into a plasmid  
202 <400> SEQUENCE: 11  
203 tcgacgaaagt tcctatactt tctagagaat aggaacttcg  
206 <210> SEQ ID NO: 12  
208 <211> LENGTH: 40  
210 <212> TYPE: DNA  
212 <213> ORGANISM: Artificial Sequence  
214 <220> FEATURE:  
216 <223> OTHER INFORMATION: Oligonucleotide synthesized to insert the FRT1-b sequence  
(including wild-  
217 type FRT sequence) into a plasmid  
219 <400> SEQUENCE: 12  
220 aattcgaagt tcctattctc tagaaaggtat aggaacttcg  
223 <210> SEQ ID NO: 13  
225 <211> LENGTH: 44  
227 <212> TYPE: DNA  
229 <213> ORGANISM: Artificial Sequence  
231 <220> FEATURE:  
233 <223> OTHER INFORMATION: Oligonucleotide synthesized to insert the FRT101-a sequence  
(including  
234 wild-type FRT sequence) into a plasmid  
236 <400> SEQUENCE: 13  
237 agcttgaagt tcctatactt tctagagaat aggaacttcg catg  
240 <210> SEQ ID NO: 14  
242 <211> LENGTH: 36  
244 <212> TYPE: DNA  
246 <213> ORGANISM: Artificial Sequence  
248 <220> FEATURE:  
250 <223> OTHER INFORMATION: Oligonucleotide synthesized to insert the FRT101-b sequence  
(including  
251 wild-type FRT sequence) into a plasmid  
253 <400> SEQUENCE: 14  
254 cgaaggttcct attctctaga aagtatagga acttca  
257 <210> SEQ ID NO: 15  
259 <211> LENGTH: 16  
261 <212> TYPE: DNA  
263 <213> ORGANISM: Artificial Sequence  
265 <220> FEATURE:  
267 <223> OTHER INFORMATION: Sequence of synthetic DNA used to prepare FRT2-a sequence  
269 <400> SEQUENCE: 15  
270 ctagagaata ggaacg  
273 <210> SEQ ID NO: 16  
275 <211> LENGTH: 16  
277 <212> TYPE: DNA

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279 <213> ORGANISM: Artificial Sequence  
281 <220> FEATURE:  
283 <223> OTHER INFORMATION: Sequence of synthetic DNA used to prepare FRT2-b sequence  
285 <400> SEQUENCE: 16  
286 aattcggttcc tattct 16  
289 <210> SEQ ID NO: 17  
291 <211> LENGTH: 18  
293 <212> TYPE: DNA  
295 <213> ORGANISM: Artificial Sequence  
297 <220> FEATURE:  
299 <223> OTHER INFORMATION: Sequence of synthetic DNA used to prepare FRT102-a sequence  
301 <400> SEQUENCE: 17  
302 agctttgttcc tatacttt 18  
305 <210> SEQ ID NO: 18  
307 <211> LENGTH: 18  
309 <212> TYPE: DNA  
311 <213> ORGANISM: Artificial Sequence  
313 <220> FEATURE:  
315 <223> OTHER INFORMATION: Sequence of synthetic DNA used to prepare FRT102-b sequence  
317 <400> SEQUENCE: 18  
318 ctagaaagta taggaaca 18  
321 <210> SEQ ID NO: 19  
323 <211> LENGTH: 14  
325 <212> TYPE: DNA  
327 <213> ORGANISM: Artificial Sequence  
329 <220> FEATURE:  
331 <223> OTHER INFORMATION: Sequence of synthetic DNA used to prepare FRT3-a sequence  
333 <400> SEQUENCE: 19  
334 ctagagaata ggag 14  
337 <210> SEQ ID NO: 20  
339 <211> LENGTH: 14  
341 <212> TYPE: DNA  
343 <213> ORGANISM: Artificial Sequence  
345 <220> FEATURE:  
347 <223> OTHER INFORMATION: Sequence of synthetic DNA used to prepare FRT3-b sequence  
349 <400> SEQUENCE: 20  
350 aattctcccta ttct 14  
353 <210> SEQ ID NO: 21  
355 <211> LENGTH: 16  
357 <212> TYPE: DNA  
359 <213> ORGANISM: Artificial Sequence  
361 <220> FEATURE:  
363 <223> OTHER INFORMATION: Sequence of synthetic DNA used to prepare FRT103-a sequence  
365 <400> SEQUENCE: 21  
366 agctttcccta tacttt 16  
369 <210> SEQ ID NO: 22  
371 <211> LENGTH: 16  
373 <212> TYPE: DNA  
375 <213> ORGANISM: Artificial Sequence

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Input Set : A:\ES.txt  
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377 <220> FEATURE:  
379 <223> OTHER INFORMATION: Sequence of synthetic DNA used to prepare FRT103-b sequence  
381 <400> SEQUENCE: 22  
382 ctagaaagta taggaa 16  
385 <210> SEQ ID NO: 23  
387 <211> LENGTH: 12  
389 <212> TYPE: DNA  
391 <213> ORGANISM: Artificial Sequence  
393 <220> FEATURE:  
395 <223> OTHER INFORMATION: Sequence of synthetic DNA used to prepare FRT4-a sequence  
397 <400> SEQUENCE: 23  
398 ctagagaata gg 12  
401 <210> SEQ ID NO: 24  
403 <211> LENGTH: 12  
405 <212> TYPE: DNA  
407 <213> ORGANISM: Artificial Sequence  
409 <220> FEATURE:  
411 <223> OTHER INFORMATION: Sequence of synthetic DNA used to prepare FRT4-b sequence  
413 <400> SEQUENCE: 24  
414 aattcctatt ct 12  
417 <210> SEQ ID NO: 25  
419 <211> LENGTH: 14  
421 <212> TYPE: DNA  
423 <213> ORGANISM: Artificial Sequence  
425 <220> FEATURE:  
427 <223> OTHER INFORMATION: Sequence of synthetic DNA used to prepare FRT104-a sequence  
429 <400> SEQUENCE: 25  
430 agtttctata cttt 14  
433 <210> SEQ ID NO: 26  
435 <211> LENGTH: 14  
437 <212> TYPE: DNA  
439 <213> ORGANISM: Artificial Sequence  
441 <220> FEATURE:  
443 <223> OTHER INFORMATION: Sequence of synthetic DNA used to prepare FRT104-b sequence  
445 <400> SEQUENCE: 26  
446 ctagaaagta taga 14  
448 <210> SEQ ID NO: 27  
450 <211> LENGTH: 29  
452 <212> TYPE: DNA  
454 <213> ORGANISM: Artificial Sequence  
456 <220> FEATURE:  
458 <223> OTHER INFORMATION: Oligonucleotide (GIN-1) synthesized to prepare a plasmid containing GIN11  
460 <400> SEQUENCE: 27  
461 tggatccgga atttcgacgg atcaataac 29  
464 <210> SEQ ID NO: 28  
466 <211> LENGTH: 35  
468 <212> TYPE: DNA  
470 <213> ORGANISM: Artificial Sequence  
472 <220> FEATURE:

**VERIFICATION SUMMARY** DATE: 10/29/2001  
**PATENT APPLICATION:** US/09/869,185 TIME: 11:34:01

Input Set : A:\ES.txt  
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L: 12 M: 256 W: Invalid Numeric Header Field, Wrong Current FILING DATE: YYYY-MM-DD

**STATISTICS SUMMARY**

PATENT APPLICATION: US/09/869,185

DATE: 10/29/2001

TIME: 11:34:01

Input Set : A:\ES.txt

Output Set: N:\CRF3\10292001\I869185.raw

Application Serial Number: US/09/869,185

Alpha or Numeric: Numeric

Application Class:

Application File Date: 06-25-2001

Art Unit: PCT09

Software Application:

Total Number of Sequences: 28

Total Nucleotides: 686

Total Amino Acids: 0

Number of Errors: 0

Number of Warnings: 1

Number of Corrections: 0

**MESSAGE SUMMARY**

256 W: 1 (Invalid Numeric Header Field)